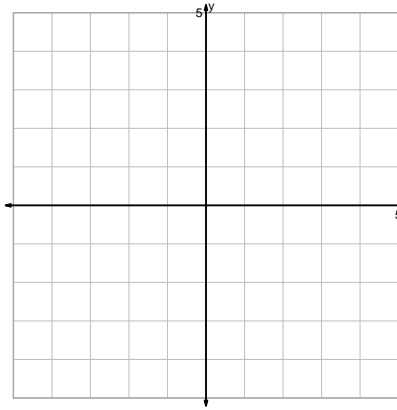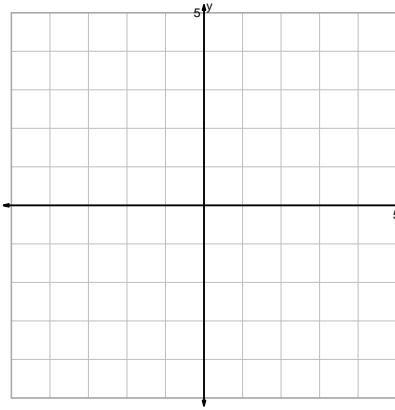# Unit-2 Reduced Mastery Assessment (version 305)

**Question 1 (20 points)**

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.
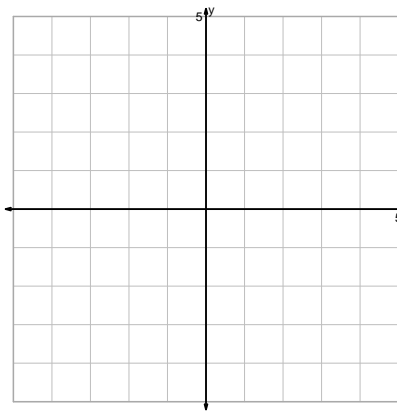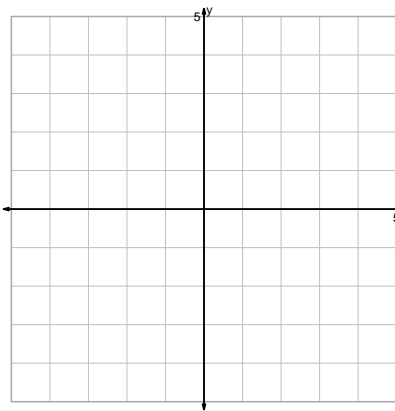
$$y = \sqrt[3]{x} - 2$$
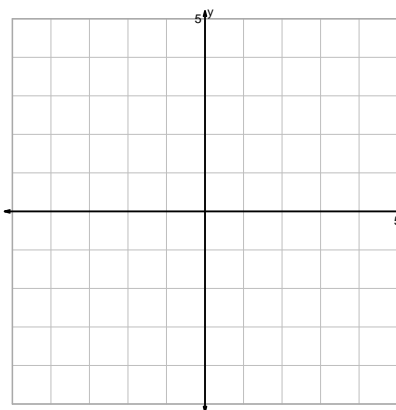
$$y = 2 \cdot x^3$$

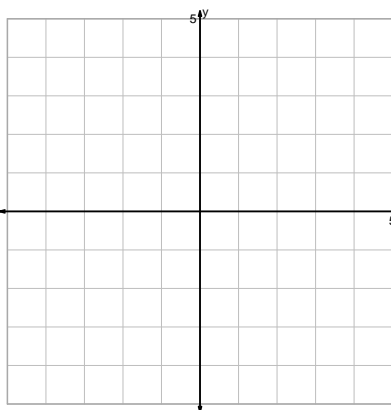$$y = \sqrt{-x}$$

$$y = \sqrt[3]{\dfrac{x}{2}}$$

$y = \sqrt{x-2}$

$y = \left(2x\right)^2$

$y = -\log_2\left(x\right)$
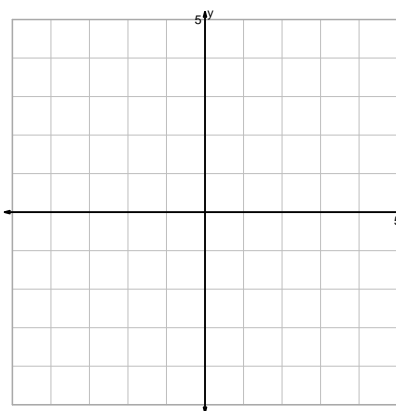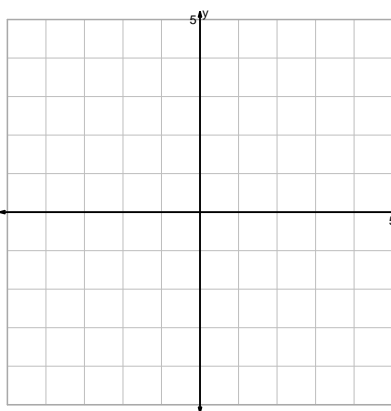
$y = 2^x + 2$
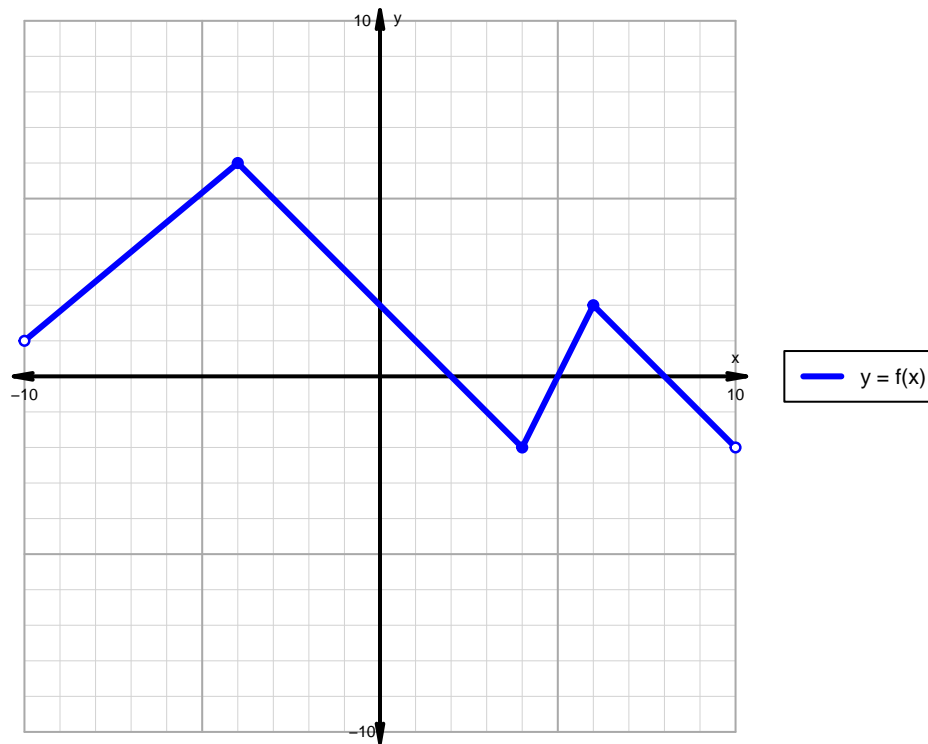
$y = \dfrac{\log_2\left(x\right)}{2}$
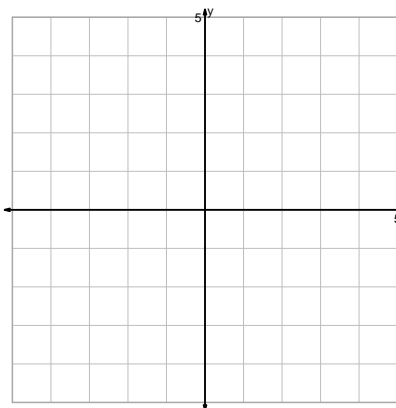
$y = \left(x+2\right)^3$
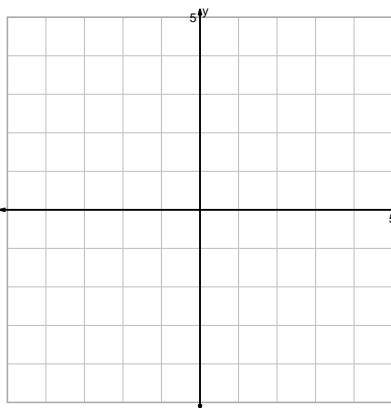
**Question 2 (20 points)**

A function is graphed below.



Indicate the following intervals using interval notation.

| Feature | Where |
|---|---|
| Positive | |
| Negative | |
| Increasing | |
| Decreasing | |
| Domain | |
| Range | |